MULTIMEDIA UNIVERSITY

STUDENT ID NO

MULTIMEDIA UNIVERSITY

FINAL EXAMINATION

TRIMESTER 1, 2017/2018

DWD5038 – WEB DESIGN

(For Diploma Students Only)

14 OCTOBER 2017
2:30 p.m – 4:30 p.m
(2 Hours)

INSTRUCTIONS TO STUDENT

1. This question paper consists of **9** pages with **2** sections.
2. Answer **ALL** questions.
3. For **Section A**, please shade your answers on the **OMR sheet** provided.
4. For **Section B,** please write your answers in the **Answer Booklet** provided.

Section A: Multiple Choice Questions (Total: 20 Marks)
Instruction: *Please shade the correct answer on the* ***OMR sheet*** *provided.*

1. Which of the following are necessary to be contained in the packets while transmitting the packets through the computer network?
   i. Error control information
   ii. Receiver's address
   iii. Modem information
   iv. Sequencing information
   A. i, ii and iii
   B. i, ii and iv
   C. ii, iii and iv
   D. All of the above

2. _____ is a special formatted text string used by Web browsers, email clients and other software to identify a network resource on the Internet.
   A. IP address
   B. Uniform Resource Locator (URL)
   C. Domain Name System (DNS)
   D. MAC address

3. In an email delivery system, _____ is responsible to control the mail delivery within the Internet.
   A. Post Office Protocol (POP)
   B. Simple Mail Transfer Protocol (SMTP)
   C. Hypertext Transfer Protocol (HTTP)
   D. File Transfer Protocol (FTP)

4. _____ is a web page creation tool that displays a visual WYSIWYG environment.
   A. Text editor
   B. HTML editor
   C. Web authoring program
   D. Multimedia and Graphic design program

5. Which of the following statements are **TRUE** about HTML?
   i. HTML is not a programming language, it is a markup language.
   ii. All HTML tags must be enclosed in angle brackets (< >).
   iii. HTML is designed for delivering content.
   iv. HTML is case-sensitive.
   A. i, ii and iii
   B. i, ii and iv
   C. ii, iii and iv
   D. All of the above

6. Which of the following is **NOT** a HTML tag for definition list?
   A. `<dl>`
   B. `<dd>`
   C. `<dt>`
   D. `<ds>`

Continued...

7. Which of the following are the attributes of `<img>`?
   i. src
   ii. alt
   iii. width
   iv. height
   A. i, ii and iii
   B. i, ii and iv
   C. ii, iii and iv
   D. All of the above

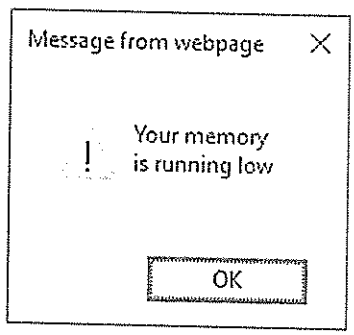
8. The _____ tag can be used inside the table tag to add a title for the table.
   A. `<caption>`
   B. `<name>`
   C. `<title>`
   D. `<table header>`

9. Which of the following attributes are used to determine the size of the textarea?
   A. `rows and cols`
   B. `height and width`
   C. `x-axis and y-axis`
   D. `row and column`

10. When _____ attribute present, it specifies that an `<input>` elements should be pre-selected when the web-page loads.
   A. `selected`
   B. `checked`
   C. `ticked`
   D. `true`

11. Which of the following are **TRUE** about JavaScript?
   i. JavaScript was developed by World Wide Web Consortium.
   ii. JavaScript was designed to add interactivity to HTML pages.
   iii. JavaScript can be embedded into HTML pages.
   iv. JavaScript is a popular client-side scripting language supported by all major browsers.
   A. i, ii and iii
   B. i, iii and iv
   C. ii, iii and iv
   D. All of the above

12. Which of the following JavaScript code is **CORRECT** in producing the output below?



   A. `window.alert("Your memory \tis running low");`
   B. `window.confirm("Your memory \tis running low");`
   C. `window.alert("Your memory \nis running low");`
   D. `window.confirm("Your memory \nis running low");`

13. Which of the following is **NOT** a valid variable name in JavaScript?

A. `travel_package`
B. `_party`
C. `#summer`
D. `$weight`

14. Which of the following is **NOT** a logical operator in JavaScript?

A. `==`
B. `&&`
C. `||`
D. `!`

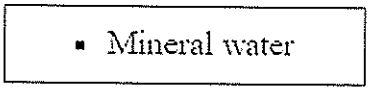
15. Which of the following is the **CORRECT** way to assign a value to a variable in JavaScript?

A. `price = RM100;`
B. `flower = "roses";`
C. `book = Harry Potter;`
D. `country = (Australia);`

16. Which of the following is element selector in CSS?

A. `p.right {border-color: yellow;}`
B. `.right {border-color: yellow;}`
C. `#right {border-color: yellow;}`
D. `p {border-color: yellow;}`

17. Which of the following CSS codes generates the output below?



A.
```
<ul style="list-style-type: disc">
    <li>Mineral water</li>
</ul>
```
B.
```
<ul style="list-style-type: circle">
    <li>Mineral water</li>
</ul>
```
C.
```
<ul style="list-style-type: square">
    <li>Mineral water</li>
</ul>
```
D.
```
<ul style="list-style-type: round">
    <li>Mineral water</li>
</ul>
```

18. Which of the following are the valid `color` values in CSS?

i. Colour names
ii. Hexadecimal values
iii. RGB values
iv. Colour base

A. i, ii and iii
B. i, ii and iv
C. i, iii and iv
D. All of the above

Continued...

19. Which of the following are the valid values for `text-decoration` property in CSS?

i. `none`
ii. `underline`
iii. `overline`
iv. `line-through`

A. i, ii and iii
B. i, ii and iv
C. ii, iii and iv
D. All of the above

20. Which of the following is **NOT** the valid `padding` property in CSS?

A. `padding-top`
B. `padding-down`
C. `padding-left`
D. `padding-right`

Section B: Structured Questions, 4 Questions (Total: 80 Marks)
Instruction: *Answer ALL the questions in the* ***Answer Booklet*** *provided.*

QUESTION 1 **[Total: 20 Marks]**

a. Explain the function of Hypertext Transfer Protocol Secure (HTTPS). (4 Marks)

b. Define meta-search engine. (2 Marks)

c. Write the complete **HTML** code to display the following output: (5 Marks)
- Poem: Hope - set as heading 3.

Poem: Hope

Hope is the thing with *feathers*

That perches in the ***soul***

And **sings** the tune without the words

d. Write the complete **HTML** code to display the following list. (7 Marks)

- Horror
  III. The Conjuring 2
  IV. The Witch
- Action
  a. Wonder Woman
     - 141 minutes
  b. Transformers

e. Write **HTML** code to insert a hyperlink "https:www.google.com" with text "Google Homepage" which opens in a new window. (2 Marks)

Continued...

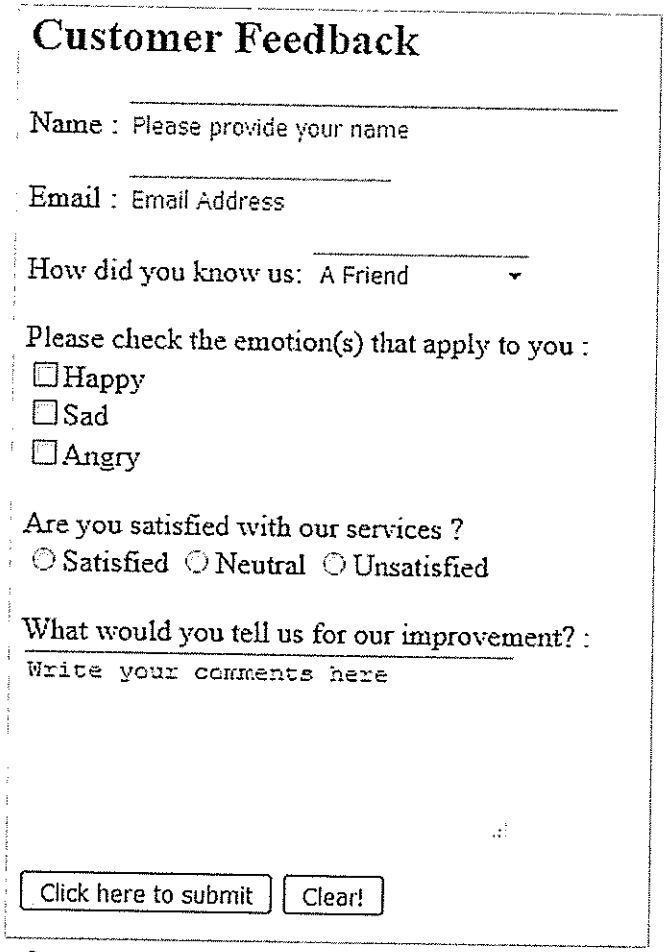
QUESTION 2

[Total: 20 Marks]

a. Write the **HTML** code to create the table below. (8 Marks)

Vitamin Information		
Benefits	Vitamin A	Protects Skin
		Improves health of bones
	Vitamin E	Prevents Cancer

b. Figure below illustrates a feedback form to be filled by a customer. Write the complete **HTML** code to display the form. (12 Marks)


Customer Feedback
Name : Please provide your name
Email : Email Address
How did you know us: A Friend
Please check the emotion(s) that apply to you :
Happy
Sad
Angry
Are you satisfied with our services ?
Satisfied Neutral Unsatisfied
What would you tell us for our improvement? :
Write your comments here
Click here to submit
Clear!

Elements in the form are as follows:

- Customer Feedback – set as heading 2.
- Set the width of "Name" field to 40px and it is a *required* field.
- A dropdown list which consists of the options "A Friend", "Website" and "Email Marketing".

Continued...

QUESTION 3

[Total: 20 Marks]

a. Write the complete **HTML** and **JavaScript** code to create a program that calculates the area of a trapezium. *Figures 1* to *4* show a sample run of the program. *(Include all HTML closing tags)* (15 Marks)

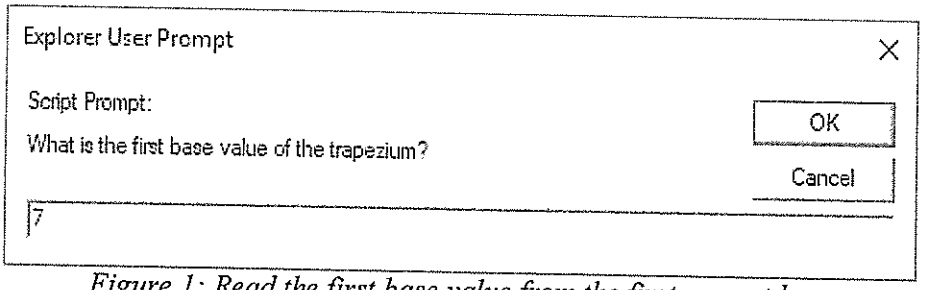


Figure 1: Read the first base value from the first prompt box.

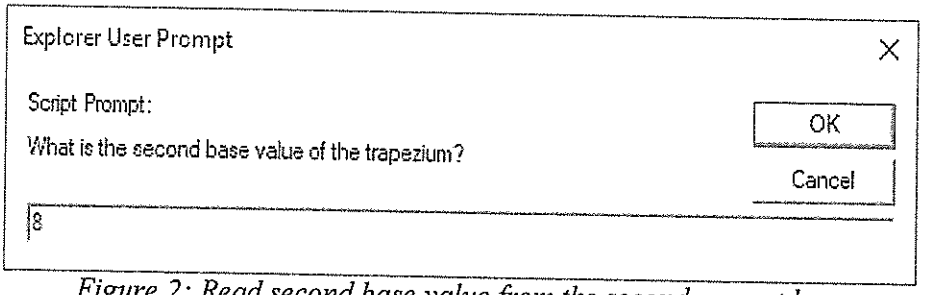


Figure 2: Read second base value from the second prompt box.

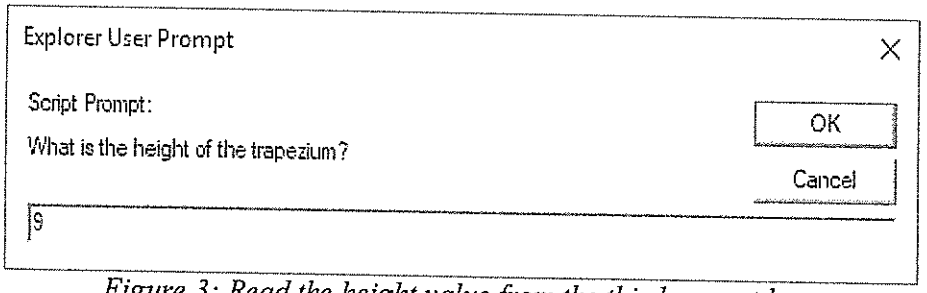


Figure 3: Read the height value from the third prompt box.

Continued...

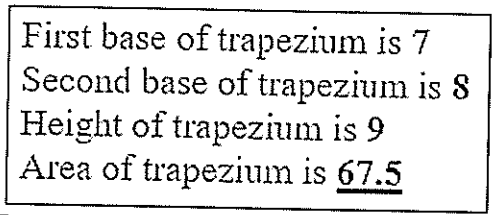


Figure 4: Display output on the web page.

i. Declare 4 variables: *base1*, *base2*, *height*, and *area*.

ii. Use the *base1*, *base2*, *height* variables to store the first base value of trapezium, second base value of trapezium and height of trapezium entered by the user respectively. The user can enter any numeric input (refer to *Figures 1 to 3*).

iii. Convert the input to a number if necessary.

iv. Calculate the area of the trapezium and store the result in the *area* variable. [Formula: area = (base1 + base2) / 2 * height]

v. Display the results on the web page (refer to *Figure 4*).

b. Below is a segment of **JavaScript** code. Write the output for the following cases.

```
if (a >= b)
      c = a * b;
else if (a + b == 20)
      c = b / 4;
else if (5 + a * b >= 15)
      c = a * 5;
else if (a + b < a * b)
      c = b + b;
else if (a == b)
      c = 0;
else
      c = a;
```

(5 marks)

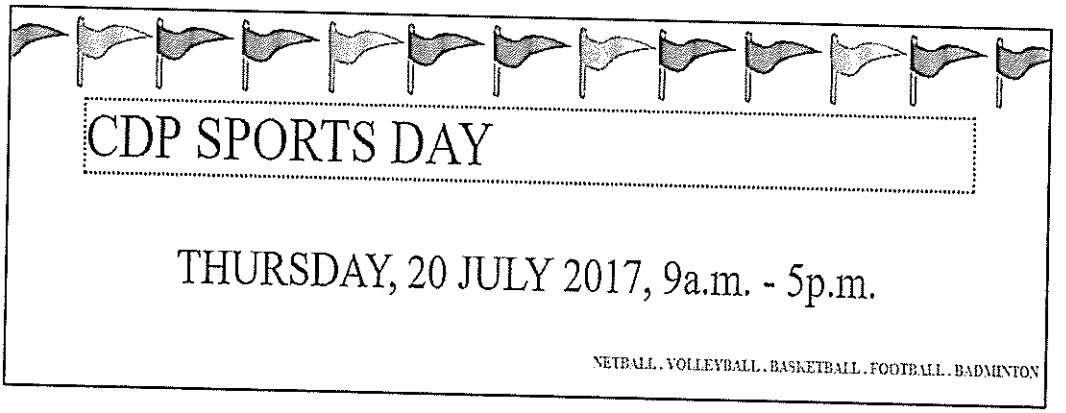
No	Case	Result
i.	a = -10, b = 10	c =
ii.	a = 25, b = 15	c =
iii.	a = 4, b = 16	c =
iv.	a = 3, b = a * 2	c =
v.	a = 12 / 6 * 1, b = 12 / 3 – 1	c =

Continued...

QUESTION 4

[Total: 20 Marks]

Write the complete **HTML** code and **Inline CSS** to create the web page below *(Include all HTML closing tags).* (20 Marks)



Background

- Set the picture (*flag.png*) as the background image.
- Repeat the picture horizontally.
- Set the background attachment to *fixed.*
- Position the picture at the *top* of the webpage.

First paragraph [CDP SPORTS DAY]

- Set the font size to *60px.*
- Set the text colour *#512E5F.*
- Use *dotted* border.
- Set the left and right margin to *80px.*

Second paragraph [THURSDAY, 20 JULY 2017, 9a.m. – 5p.m.]

- Align the paragraph to *center.*
- Set the background colour to *#FAD8D8.*
- Set the font size to *48px.*

Third paragraph [NETBALL. VOLLEYBALL. BASKETBALL. FOOTBALL. BADMINTON]

- *Bold* the text.
- Set the font face to *Palatino.*
- Set the text colour to *#7FB3D5.*
- Align the paragraph to *right.*

End of Page.